

Use local febrile neutropenia guideline if the patient has haematology/oncology diagnosis

Does your patient have risk factors, signs or symptoms of infection?

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Signs of toxicity alertness, arousal or activity decreased; colour pale or mottled; cool peripheries; cry weak; grunting; rigors <input type="checkbox"/> Non-blanching rash <input type="checkbox"/> Clinician concern of sepsis <input type="checkbox"/> High level parental concern | <ul style="list-style-type: none"> <input type="checkbox"/> 3 months of age or younger (corrected) <input type="checkbox"/> Re-presentation within 48 hours <input type="checkbox"/> Recent surgery <input type="checkbox"/> Indwelling medical device <input type="checkbox"/> Immunocompromised e.g. asplenia, malignancy, chronic steroid use |
|--|---|

AND

Does your patient have 1 Red Zone BTF or 2 Yellow Zone BTF criteria?

Note: only 1 BTF criterion required if the patient is immunocompromised



Respiratory Rate	<input type="checkbox"/> Red Zone	<input type="checkbox"/> Yellow Zone
Respiratory Distress	<input type="checkbox"/> Red Zone	<input type="checkbox"/> Yellow Zone
Heart Rate	<input type="checkbox"/> Red Zone	<input type="checkbox"/> Yellow Zone
Central Capillary Refill	<input type="checkbox"/> ≥ 5 sec	<input type="checkbox"/> 3-4 sec
Level of Consciousness	<input type="checkbox"/> AVPU : Pain or Unresponsive <input type="checkbox"/> GCS: Red Zone or ≥ 2 point drop	<input type="checkbox"/> AVPU: Voice
Temperature	<input type="checkbox"/> Red Zone OR ≥ 38°C if less than 4 weeks of age	<input type="checkbox"/> Yellow Zone

YES → Senior Clinician Review

Initiate appropriate treatment

- Full set of observations (Including Blood Pressure)
- Urgent blood gas
- Obtain IV access
- Blood culture, lactate, BGL, FBC & EUC

NO → Initiate appropriate treatment

- Increase frequency of observations
- Manage and reassess the patient
- Sepsis may still be of concern
- Refer to Recognition of the Sick Baby or Child and/or Fever CPGs

Does your patient have any of the following additional criteria?

- | | |
|--|--|
| <input type="checkbox"/> Systolic Blood Pressure in the Red or Yellow Zone | <input type="checkbox"/> Lactate ≥ 4 or procalcitonin (if available) ≥ 0.5 |
| <input type="checkbox"/> Base Excess ≤ -5 | <input type="checkbox"/> Ongoing clinician concern |

YES

**THE PATIENT HAS SEVERE SEPSIS
or SEPTIC SHOCK
until proven otherwise**

Escalate immediately as per local CERS

- Expedite transfer to resuscitation area or equivalent
- Immediate IV/IO access, fluid resuscitation and antibiotics

**TURN OVER PAGE FOR
RESUSCITATION GUIDELINE**

NO

The Patient may have SEPSIS

Escalate to Senior Clinician and/or Paediatrician within 30 minutes

- Monitor vital signs and fluid balance
- IV access and IV fluids
- Lactate > 2: Escalate to Senior Medical Clinician
- Investigate source of infection e.g. cultures/urine MC&S/swabs/CXR
- Administer empirical antibiotics within 1hr unless other diagnosis more likely

**Do not delay administering antibiotics
if septic screen is unsuccessful**

RECOGNISE

RESPOND & ESCALATE

RESUSCITATE & RE-ASSESS

Chart all observations on the age appropriate ED-SPOC

A Maintain patent airway

B Give oxygen Monitor: Resp rate SpO₂
 Maintain SpO₂ ≥ 95% Resp distress

C **Intravenous access collect and check:**

<input type="checkbox"/> FBC	<input type="checkbox"/> UEC	<input type="checkbox"/> LFTs	<input type="checkbox"/> Coags
<input type="checkbox"/> PCT	<input type="checkbox"/> VBG	<input type="checkbox"/> Blood culture(s)	<input type="checkbox"/> BGL
<input type="checkbox"/> Lactate	<input type="checkbox"/> BE		

Consider intraosseous access after two failed IVC attempts or 60 seconds

C **Fluid resuscitation** Monitor: HR Capillary refill
 Give 0.9% NaCl 20mL/kg bolus STAT BP Colour
 Repeat 20mL/kg bolus if no improvement in heart rate, capillary refill, colour or perfusion

START EMPIRICAL ANTIBIOTICS WITHIN 60 MINUTES
 Neonatal or Paediatric First Dose Empirical IV Antibiotic Guideline

D Assess level of consciousness Monitor: LOC

E Examine patient for source of sepsis Monitor: Temperature
 Collect appropriate swabs, urine MCS, NPA, CXR

F Fluid balance chart Monitor: Urine output
 Consider indwelling catheter
 Maintain urine output ≥ 1mL/kg/hr

G Treat Hyper/Hypoglycaemia
 Hypoglycaemia: 2mL/kg of 10% Dextrose (refer to CPGs)

RE-ASSESS

Continuous monitoring → Repeat Observations at least every 15 minutes

Signs of improving Clinical condition may include:

Improved LOC	Decreasing lactate
Improved capillary refill & BP	Improved heart rate
Improved colour	Urine output ≥ 1mL/kg/hr

REFER

IF NO IMPROVEMENT → ADDITIONAL MANAGEMENT IS REQUIRED

This child may need transfer to a Paediatric Intensive Care Unit

Seek advice immediately from NETS (1300 36 2500)
 in collaboration with local/regional paediatric experts
 or consult paediatric intensivist within your hospital if available

Consider and/or prepare for:

1. Other diagnoses or contributing factors
2. Further IV/IO 20mL/kg fluid boluses of 0.9% NaCl or colloid
3. Intubation
4. Inotropes to achieve SBP above the 'lower' Red Zone threshold
5. Corticosteroids (discuss with NETS/paediatric intensivist)
6. Correct hypocalcaemia if present